

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19 When handed in at Local Office 19 Port of PORT OF HULL
 Received at London Office 15 AUG 1941
 No. in Survey held at Reg. Book. on the Steam Trawler FLOTTA. Date, First Survey 30.9.40 Last Survey 7.6.1941
 (Number of Visits 45)
 Built at SELBY. By whom built Messrs. Colraze & Co. Yard No. 1227. When built 1941-6
 Engines made at HULL. By whom made Messrs. Chas. D. Holmes & Co. Engine No. 1574. When made 1941-6
 Boilers made at HULL. By whom made Messrs. Chas. D. Holmes & Co. Boiler No. 1576. When made 1941-6
 Registered Horse Power 156. Owners THE ADMIRALTY. Port belonging to
 Nom. Horse Power as per Rule 156. Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
 Trade for which Vessel is intended

ENGINES, &c.—Description of Engines TRIPLE EXPANSION. CONTRACT. Revs. per minute 160.
 Dia. of Cylinders 13 1/2", 23", 38" Length of Stroke 27" No. of Cylinders 3. No. of Cranks 3.
 Crank shaft, dia. of journals as per Rule 7.5" as fitted 7 3/8" Crank pin dia. 7 3/8" Crank webs Mid. length breadth 2.10" Thickness parallel to axis 4 13/16"
 Intermediate Shafts, diameter as per Rule 7.15" as fitted 7 1/4" Thrust shaft, diameter at collars as per Rule 7.5" as fitted 7 3/8"
 Tube Shafts, diameter as per Rule 8.2" as fitted 8 1/4" Is the tube shaft fitted with a continuous liner { No.
 Bronze Liners, thickness in way of bushes as per Rule 8.2" as fitted 8 1/4" Thickness between bushes as per Rule 8.2" as fitted 8 1/4" Is the after end of the liner made watertight in the propeller boss Yes.
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Yes.
 If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes.
 If two liners are fitted, is the shaft lapped or protected between the liners Yes. Is an approved Oil Gland or other appliance fitted at the after end of the tube Yes.
 Propeller, dia. 105" Pitch 9'-4" No. of Blades 3. Material C.I. whether Moveable Solid. Total Developed Surface 30 sq. feet
 Feed Pumps worked from the Main Engines, No. 2. Diameter 2 1/2" Stroke 15" Can one be overhauled while the other is at work Yes.
 Bilge Pumps worked from the Main Engines, No. 2. Diameter 2 1/2" Stroke 15" Can one be overhauled while the other is at work Yes.
 Feed Pumps { No. and size One 4" x 6" x 12" Weirs. Pumps connected to the Main Bilge Line { No. and size One 6" x 5 1/2" x 15" Weirs.
 How driven Independent Steam How driven Independent Steam. ALSO DOWNTON.
 Ballast Pumps, No. and size NONE Lubricating Oil Pumps, including Spare Pump, No. and size NONE
 Are two independent means arranged for circulating water through the Oil Cooler NONE Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room Eng. Rm. 2 @ 2" Dia one @ 3 1/2" Dia Stroke 15" 2 @ 2" Dia.
 In Pump Room NONE In Holds, &c. One @ 2" Dia in each of the following:—Fore peak, Chain Locker, ASDIC Space, Magazine, Spirit Room, Dunker, Shaft Space & After peak.
 Main Water Circulating Pump Direct Bilge Suctions, No. and size one @ 5" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size one @ 3 1/2" (includes above) Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes.
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes.
 Are all Sea Connections fitted direct on the skin of the ship Yes. Are they fitted with Valves or Cocks Yes.
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes. Are the Overboard Discharges above or below the deep water line AR.W.L.
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes. Are the Blow Off Cocks fitted with a spigot and brass covering plate No.
 What Pipes pass through the bunkers Feed tank suction. How are they protected Wood Casings.
 What pipes pass through the deep tanks NONE Have they been tested as per Rule Yes.
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes.
 Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another Yes. Is the Shaft SPACE watertight Yes. Is it fitted with a watertight door No. Access Access from Flat above.

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 2650
 Which Boilers are fitted with Forced Draft All Which Boilers are fitted with Superheaters None
 No. and Description of Boilers One S.B. Working Pressure 200 lb./sq. in.
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes.
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? Yes.
 Can the donkey boiler be used for domestic purposes only Yes.

PLANS. Are approved plans forwarded herewith for Shafting 17-7-39. Main Boilers 17-7-39 Auxiliary Boilers None Donkey Boilers None
 (If not state date of approval)
 Superheaters None General Pumping Arrangements 17-10-39. Oil fuel Burning Piping Arrangements None

SPARE GEAR.
 Has the spare gear required by the Rules been supplied Yes.
 State the principal additional spare gear supplied See attached list.

The foregoing is a correct description.
 FOR CHARLES D. HOLMES & CO., LTD.

W.R. Evans
 Manufacturer.



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WB23-0034

During progress of work in shops - - - 1940. Sep. 30. Oct. 9. Nov. 26, 27, 29. Dec. 10, 23, 27, 28, 31. - 1941. Jan. 8, 25, 28. Feb. 3, 7, 17, 24, 25, 28. Mar. 3, 4, 5, 6, 7, 12, 13, 21, 28.

Dates of Survey while building - - - Apr. 3, 5, 24. May. 6, 12, 16, 20, 23, 26, 28, 29, 31. June 3, 4, 5, 6, 7.

Total No. of visits 58 1/2

Dates of Examination of principal parts - Cylinders 24/2/41. Slides 24/2/41. Covers 24/2/41, 24/2/41, 29/2/41.

Pistons 24/2/41 Piston Rods 24/2/41 Connecting rods 24/2/41

Crank shaft 17-2-41. Thrust shaft 23/12/40. Intermediate shafts 29/1/41, 17/2/41.

Tube shaft ✓ Screw shaft 3-2-41. Propeller 24-4-41.

Stern tube 4/2/41 Engine and boiler seatings 31-12-40. Engines holding down bolts 6-4-41.

Completion of fitting sea connections 24-4-41. Boilers fixed 6-5-41. Engines tried under steam 4-6-41.

Completion of pumping arrangements 28-5-41. Main boiler safety valves adjusted 28-5-41. Thickness of adjusting washers 5/16 P. 13/32 S.

Crank shaft material M.S. Coupling 999 LT. 27/1/41. Identification Mark Pin 606 LT. Thrust shaft material M.S. Identification Mark 564 LT.

Intermediate shafts, material M.S. Identification Marks 4062, 4063. Tube shaft, material ✓ Identification Mark ✓

Screw shaft, material M.S. Identification Mark 581 EP.LT. Steam Pipes, material Steel. Test pressure 600 lb. Date of Test 12/5/41.

Is an installation fitted for burning oil fuel No. Is the flash point of the oil to be used over 150°F. ✓

Have the requirements of the Rules for the use of oil as fuel been complied with ✓

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo No. If so, have the requirements of the Rules been complied with ✓

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with No.

Is this machinery duplicate of a previous case No. If so, state name of vessel H.M.T. BIRCH.

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Machinery of this Vessel has been constructed & fitted on board in accordance with approved Admiralty plan, the Specification, & the Society's Rule.

The workmanship and materials are good and when tried out at a head full power as practicable in the basin it was found satisfactory in every respect.

The Vessel is eligible in our opinion, when classed, to have the records of * LMC 6.41 and O.G. 6.41 and the notations T. 3 cy. 13 1/2", 23, 38"-27, 156 M.H.P. 200 lb. 15B. 3 cy. G.S. 63. H.S. 2650 F.D.

The amount of Entry Fee ... £ : : When applied for, 14.8.41

Special ... £ 75 : - : 19...

Donkey Boiler Fee ... £ : : When received, 19...

Travelling Expenses (if any) £ : : 19...

J. Milner
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned
 f.d.m.b. 6.41
 22.09

TUE. 19 AUG 1941



The Surveyors are requested not to write on or below the space for Committee's Minute.